

R50A533

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WASTE MANAGEMENT

92-460 Farrington Hwy.  
Kapolei, HI 96707  
(808) 668-2985  
(808) 668-1366 Fax

March 15, 2013

Director of Health  
Clean Water Branch  
Environmental Management Division  
State Department of Health  
P.O. Box 3378  
Honolulu, HI 96801-3378

Attention: Ms. Kris Poentis, Engineering Section

**Subject: Annual Discharge Monitoring Report and Storm Water Results,  
Waimanalo Gulch Sanitary Landfill, Kapolei, Oahu, Hawaii,  
File No. HI R50A533**

Dear Ms. Poentis:

On behalf of the City & County of Honolulu, Waste Management of Hawaii (WMH) submits the annual storm water monitoring results, including the Discharge Monitoring Report (DMR), for the Waimanalo Gulch Sanitary Landfill for the monitoring period of January 1, 2012 through December 31, 2012.

Rainfall events on March 5 and 6, 2012, and again on March 20 and 21, 2012, resulted in discharges of stormwater from the site.

The March 5<sup>th</sup> event caused apparent discharge during the night. Stormwater samples were collected in the morning of March 6<sup>th</sup> though no flow was present at the time. The samples were collected by grab method from water which had ponded in the area of the current Stilling Basin (sample identification "Southern Channel") upgradient of the point of permit compliance. Additional grab samples were collected at the "detention basin" outfall and "up canyon" locations.

Rain fell again on the afternoon of March 6<sup>th</sup> and stormwater samples were then collected at the permit compliance point (i.e. the "Culvert" leading under the Farrington Highway). The afternoon samples were collected in aliquots from flowing discharge. The flow rate was estimated to be 3.85 cubic feet per second. This was the only 2012 event in which flowing

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storm water was observed and sampled at the compliance point, and it should be considered representative for permit compliance purposes. Total rain fall during the March 5<sup>th</sup> and 6<sup>th</sup> event was 2.27 inches.

As indicated on the attached DMR form (EPA Form 3320-1) (Attachment C), three of the March 6<sup>th</sup> (afternoon) parameters (iron, zinc and total suspended solids) exceeded the discharge limitations provided in the Notice of General Permit Coverage (NGPC), dated August 30, 2010. The required verbal notification of exceedance was provided to the State Department of Health, Clean Water Branch (DOH CWB) on March 29, 2012 (the day the laboratory report was received). The required written notification regarding the exceedance was submitted to the DOH CWB in a letter dated April 3, 2012, a copy of which is included (letter text only) as Attachment D.

The March 20<sup>th</sup> rainfall event also caused apparent discharge during the night. Stormwater samples were collected in the morning of March 21<sup>st</sup> though no flow was present at the time. The samples were collected by grab method from water which had ponded immediately adjacent to the point of permit compliance (“Culvert”) and from the “detention basin” outfall and “up canyon” locations. Total rain fall during the March 20<sup>th</sup> and 21<sup>st</sup> event was 1.04 inches.

Two of the March 21<sup>st</sup> parameters (pH and iron) exceeded the discharge limitations provided in the NGPC. Verbal and written notices of exceedance were submitted to the DOH CWB following receipt of the results. As there was no flowing discharge at the time of the sampling event, the grab samples are not considered representative for permit compliance purposes.

The 2012 Field Information Forms are presented as Attachment A and provide the details of the sampling events. Laboratory reports, including quality assurance/quality control data and chains of custody, are included as Attachment B. The flow rates were determined using the depth-flow tables (Attachment F) developed for both the west and the east detention basin outfall pipes.

The bi-annual site inspection logs and the non-storm water discharge certifications are included as Attachment E.

Extensive corrective actions and improvements to the site storm water conveyance systems have recently been completed. Additional improvements are currently under construction. Following completion of the Western Diversion System, the permit point of compliance was moved upgradient from the Farrington Highway “Culvert” to the Detention Basin Outfalls “DB01E” and “DB01W”. The Storm Water Pollution Control Plan dated March 2013 describes the improvements implemented in 2012.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you should have any questions or require additional information, please contact me at (808) 668-2985.

Very truly yours,



Joseph R. Whelan  
General Manager  
Waste Management of Hawaii

Enclosures: Attachment A – Field Information Form  
Attachment B – Analytical Laboratory Reports  
Attachment C – Discharge Monitoring Report Form  
Attachment D – Written Notices of Exceedance  
Attachment E – Inspection Reports  
Attachment F – Depth-Flow Tables

cc: Wayne Hamada – City and County of Honolulu  
Justin Lottig – WMH  
Mark Hofferbert – AECOM Technical Services

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved.  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
City and County of Honolulu  
Department of Environmental Services, Refuse Division  
1000 Ulukouia Street, Suite 212  
Kapolei, Hawaii 96707

HI R50A533	WGLF-Culvert-01
PERMIT NUMBER	DISCHARGE NUMBER

ADDRESS 92-460 Farrington Highway  
Kapolei, HI 96707

FACILITY Waimanalo Gulch Sanitary Landfill

LOCATION Culvert Entrance, Property Boundary  
Sampled on 03/06/2012

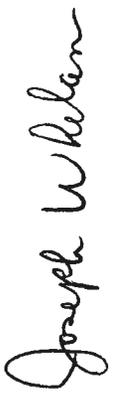
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2012	01	01	2012	12	31

FROM

Check here if No Discharge

NOTE: Read instructions before completing this form.

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE			
Flow	3.85		cfs			0	1/365	Calculated/Estimated
		No limitation at this time					1/365	Calculated/Estimated
Biochemical Oxygen Demand				3.11		0	1/365	Composite
				Report			1/365	Composite
Chemical Oxygen Demand				50		0	1/365	Composite
				Report			1/365	Composite
Total Suspended Solids				970		1	1/365	Composite
				100			1/365	Composite
Total Phosphorus				< 0.050		0	1/365	Composite
				Report			1/365	Composite
Total Nitrogen				5.8		0	1/365	Composite
				Report			1/365	Composite
Nitrate + Nitrite Nitrogen				2.4		0	1/365	Composite
				Report			1/365	Composite
Oil and Grease				14		0	1/365	Grab
				15			1/365	Grab

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Joseph Whelan, General Manager/Vice President Waste Management of Hawaii, Inc.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 		TELEPHONE 808 668-2985	DATE 2013 3 15
	TYPED OR PRINTED	AREA CODE	NUMBER	MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Form Approved.  
OMB No. 2040-0004

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ADDRESS 92-460 Farrington Highway  
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FACILITY Waimanalo Gulch Sanitary Landfill  
LOCATION Culvert Entrance, Property Boundary  
Sampled on 03/06/2012

HI R50A533	WGLF-Culvert-01
PERMIT NUMBER	DISCHARGE NUMBER

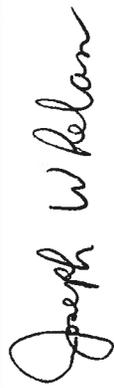
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2012	01	01	2012	12	31

FROM TO

Check here if No Discharge

NOTE: Read instructions before completing this form.

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	AVERAGE	MAXIMUM	UNITS			
pH								0	1/365	Grab
Ammonia								0	1/365	Grab
Alpha Terpineol								0	1/365	Composite
Benzoic Acid								0	1/365	Composite
p-Cresol								0	1/365	Composite
Pentachlorophenol								0	1/365	Composite
Phenol								0	1/365	Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Joseph Wheilan, General Manager/Vice President Waste Management of Hawaii, Inc.	TELEPHONE 808 688-2985	DATE 3 15 2013	
		AREA CODE	NUMBER
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 		YEAR	MO
TYPED OR PRINTED		NUMBER	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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ADDRESS 92-460 Farrington Highway  
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FACILITY Waimanalo Gulch Sanitary Landfill

LOCATION Culvert Entrances, Property Boundary  
Sampled on 03/06/2012

HI R50A553	WGLF-Culvert-01
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2012	01	01	2012	12	31
FROM			TO		

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		AVERAGE	MAXIMUM	UNITS	AVERAGE	MAXIMUM	UNITS			
Total Recoverable Arsenic								0	1/365	Composite
Total Recoverable Cadmium								0	1/365	Composite
Total Recoverable Chromium IV								0	1/365	Composite
Total Recoverable Iron								1	1/365	Composite
Total Recoverable Lead								0	1/365	Composite
Total Recoverable Mercury								0	1/365	Composite
Total Recoverable Selenium								0	1/365	Composite
Total Recoverable Silver								0	1/365	Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE		DATE			
	808 688-2985		2013 3 15			
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY
		808	688-2985	2013	3	15
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TYPED OR PRINTED						

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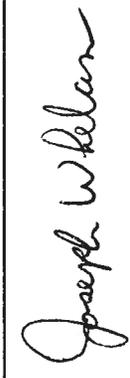
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		AVERAGE	MAXIMUM	UNITS	AVERAGE	MAXIMUM	UNITS			
Total Recoverable Zinc								1	1/365	Composite
									1/365	Composite

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE					
		AREA CODE	NUMBER	YEAR	MO	DAY	
Joseph Whelan, General Manager/Vice President Waste Management of Hawaii, Inc.	808 666-2985	2013	3	15			
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY
			808	666-2985	2013	3	15

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